

Report No.: KUPU-YT280-30D

Test Time: 2025/9/30 15:17:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-YT280
Lamp Type:
Luminous Width: 250 mm
Luminous Length: 250 mm
Luminous Height: 24 mm

Voltage(V): 220.85 V
Current(A): 0.5410 A
Power(W): 115.29 W
Power Factor: 0.9640
Lamp Luminous Flux: 9880.64

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 9880.644 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.70 lm/W
Beam Angle(50%) C0-180,C90-270: 31.4,31.0
Field Angle(10%) C0-180,C90-270: 59.9,60.1
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 29076.67 cd
Max.Intensity Angle: C=105 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 28368.64 cd
Effective Luminous Flux: 8685.55 lm
ERP(ϕ use)(120deg): 9765.82 lm

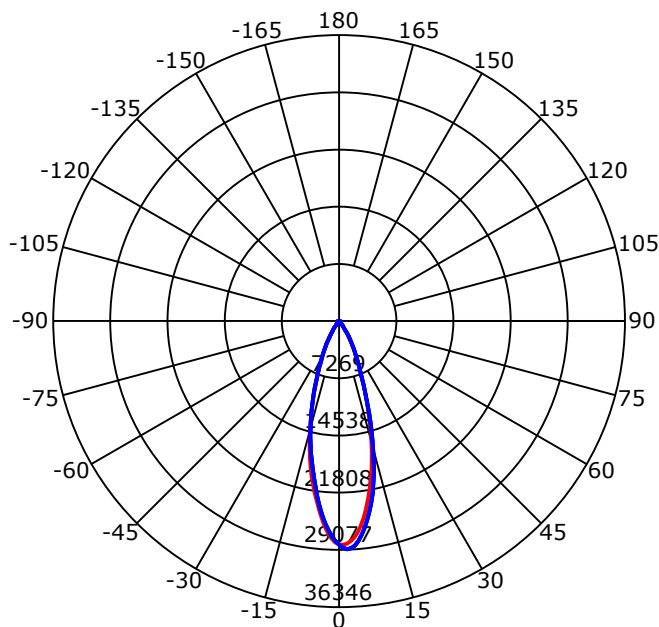
CIE Color Parameter

Chromaticity coordinates: $x = y = u = v = u^{\wedge} = v^{\wedge} = 0.0000$
Color temperature:K (duv=) Color difference:SDCM(CIE)= Main Wl: λ_d = Purity:
Peak wavelength: λ_p = FWHM: $\Delta\lambda_p$ = Color ratio:R= G= B=
Color rendering index :Ra=
R1= R2= R3= R4= R5= R6= R7= R8=
R9= R10= R11= R12= R13= R14= R15=

Picture of Luminaire



Luminous Intensity Distribution Curve



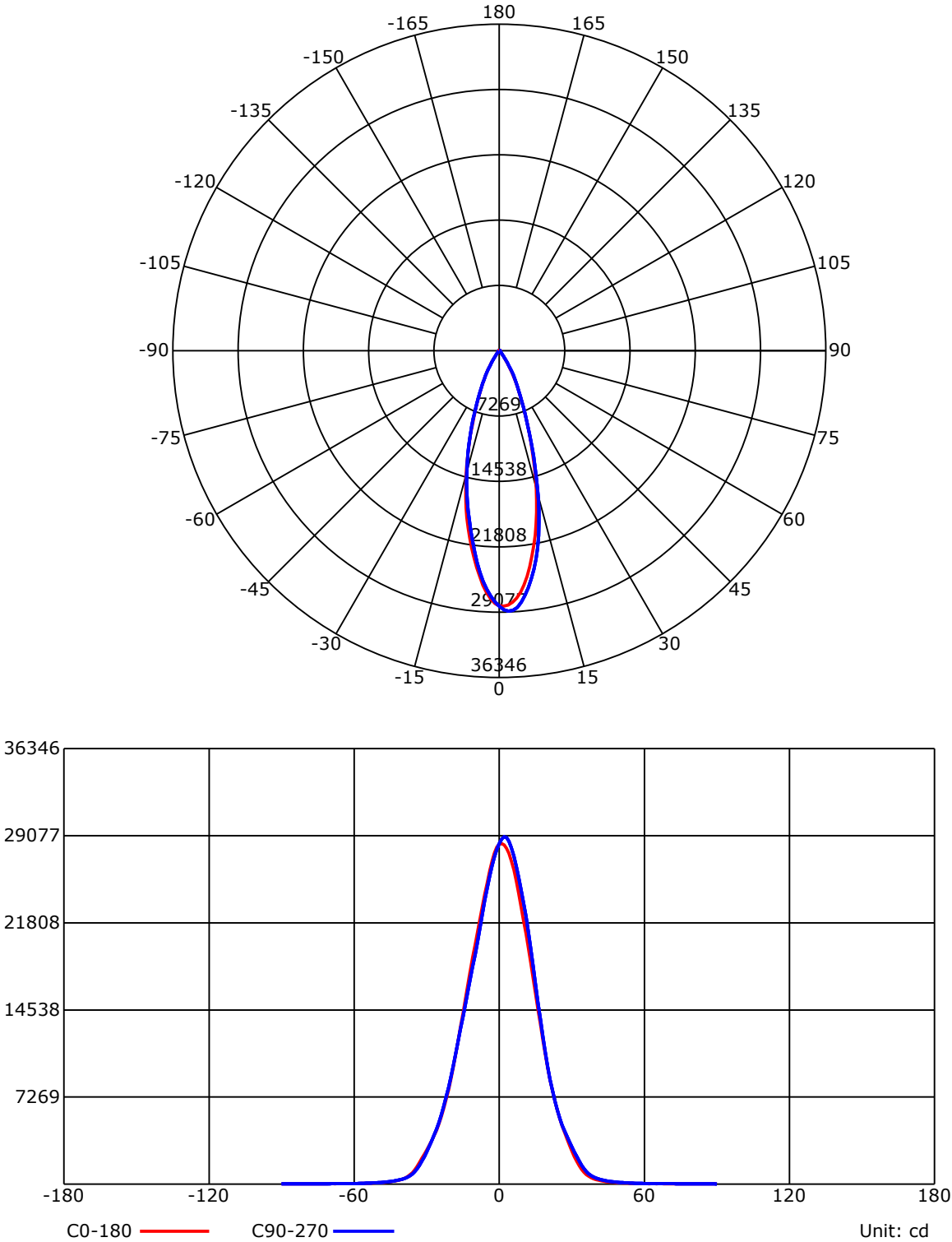
Beam Angle(50%) C0-180,C90-270: 31.4 deg,31.0 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

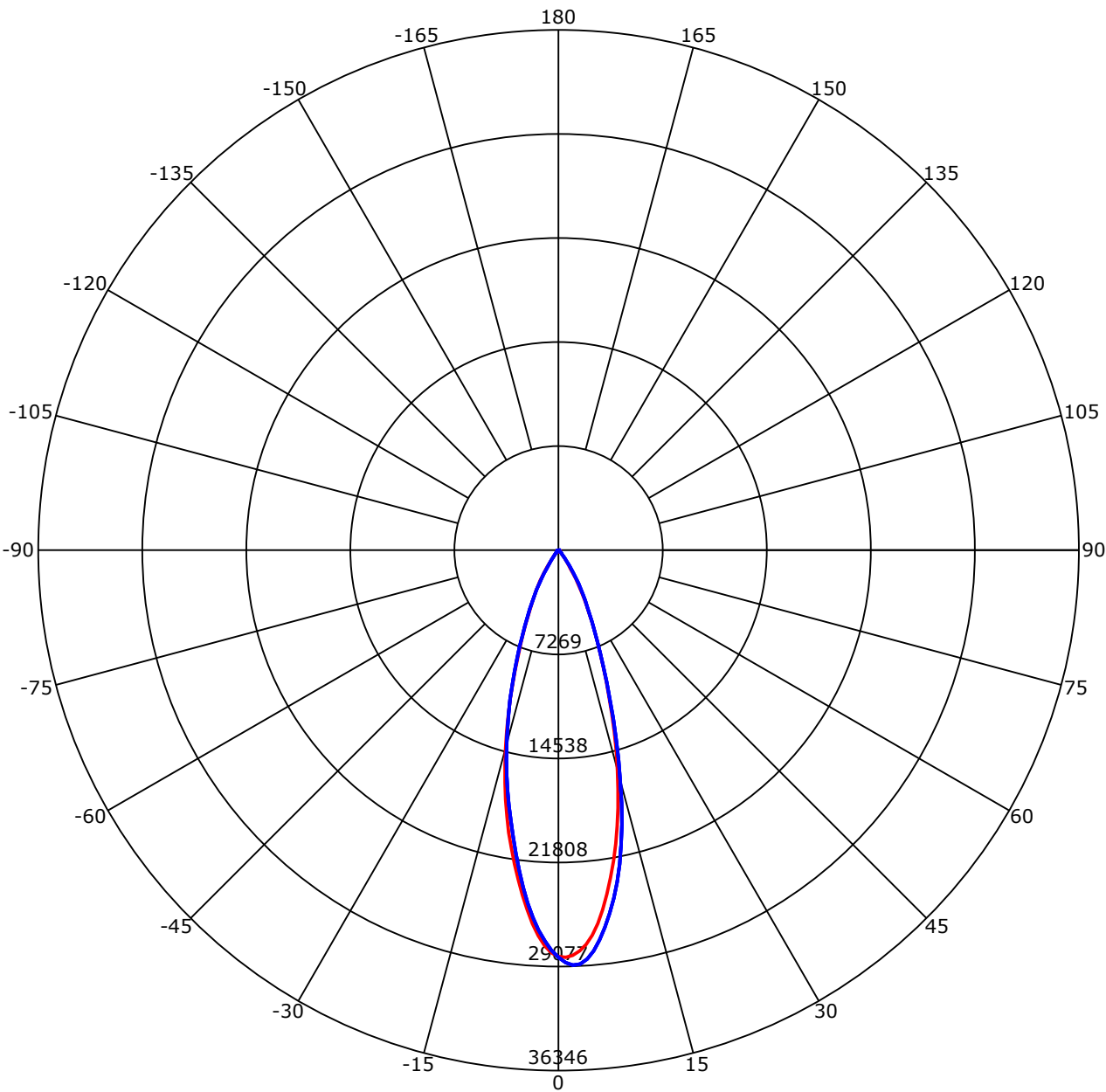
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

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Humidity:
Test Distance: 7.061 m
Remarks:

Luminous Intensity Distribution Curve

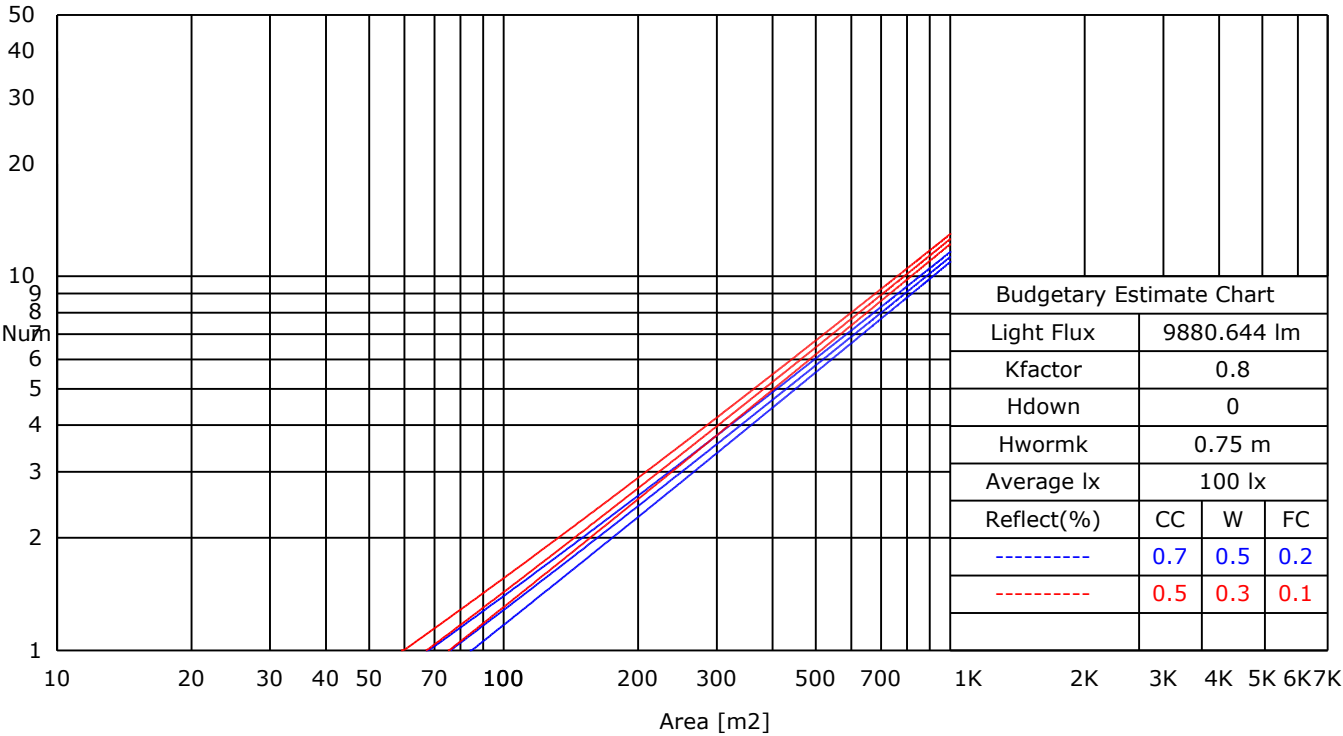


C0-180 — C90-270
Unit: cd/klm

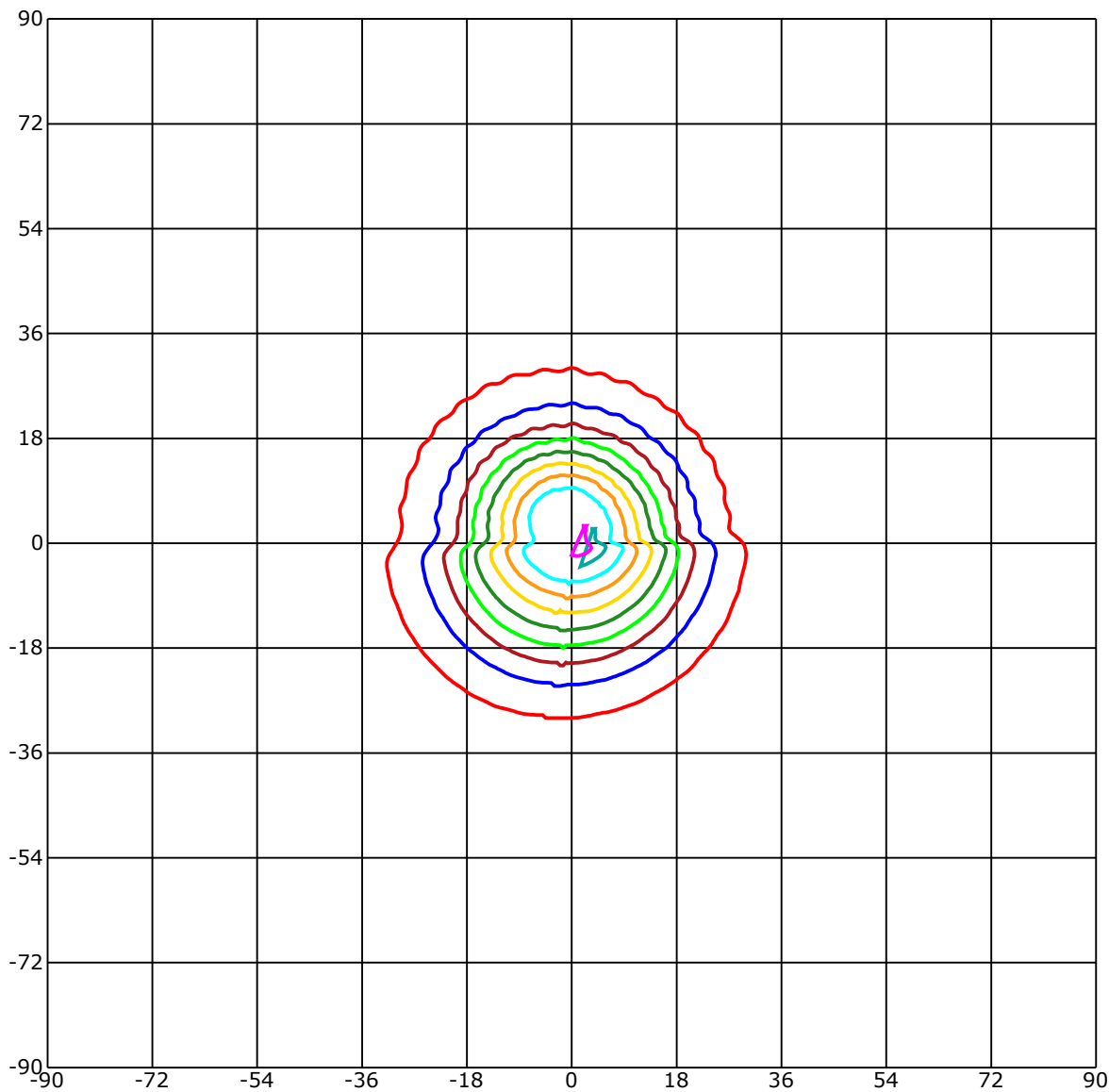
UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.15	1.14	1.14	1.13	1.12	1.09	1.08	1.07	1.04	1.03	1.02	0.96	0.95	0.94	0.89
2	1.10	1.09	1.08	1.08	1.07	1.06	1.04	1.03	1.01	0.99	0.97	0.96	0.93	0.91	0.89	0.85
3	1.05	1.04	1.03	1.03	1.02	1.01	1.00	0.98	0.96	0.95	0.93	0.91	0.90	0.87	0.85	0.81
4	1.00	0.99	0.98	0.99	0.97	0.96	0.95	0.93	0.91	0.91	0.89	0.87	0.87	0.84	0.81	0.77
5	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.89	0.87	0.88	0.85	0.83	0.84	0.80	0.78	0.74
6	0.92	0.91	0.90	0.91	0.89	0.88	0.88	0.85	0.84	0.84	0.81	0.79	0.81	0.77	0.74	0.71
7	0.88	0.87	0.86	0.87	0.85	0.84	0.84	0.82	0.80	0.81	0.78	0.76	0.78	0.74	0.71	0.68
8	0.85	0.84	0.83	0.84	0.82	0.81	0.81	0.79	0.77	0.78	0.75	0.73	0.75	0.71	0.69	0.65
9	0.82	0.80	0.80	0.80	0.79	0.78	0.78	0.76	0.74	0.76	0.72	0.70	0.73	0.69	0.66	0.63
10	0.79	0.77	0.77	0.78	0.76	0.75	0.75	0.73	0.71	0.73	0.70	0.67	0.70	0.66	0.64	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



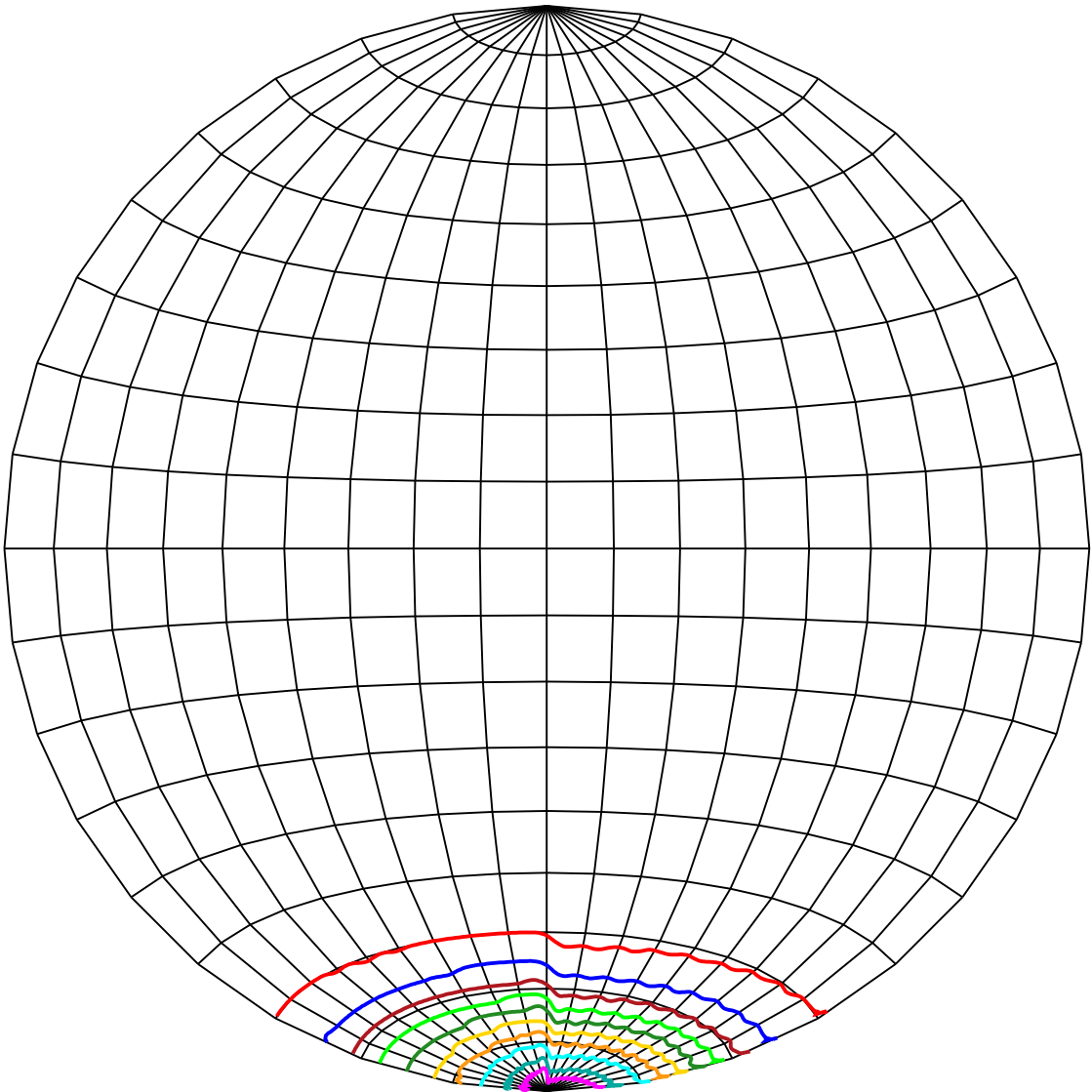
ISOCANDELA DIAGRAM (RECTANGULAR)



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



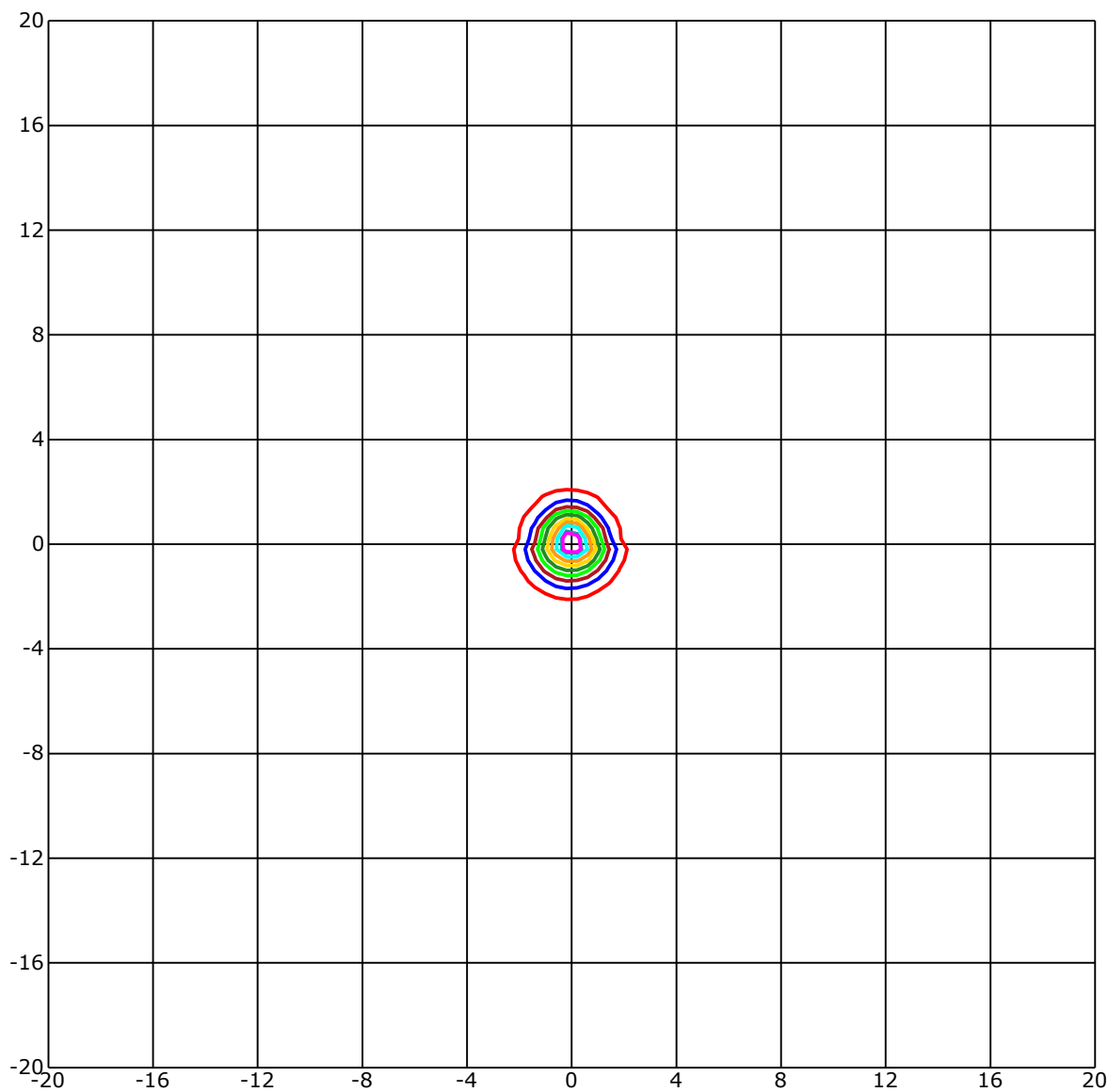
Unit of intensity:cd I_{max}(100%): 29076.67 cd

- | | |
|--------------------------------|--------------------------------|
| 27622.84(95%I _{max}) | 14538.34(50%I _{max}) |
| 26169.0(90%I _{max}) | 11630.67(40%I _{max}) |
| 23261.34(80%I _{max}) | 8723.002(30%I _{max}) |
| 20353.67(70%I _{max}) | 5815.334(20%I _{max}) |
| 17446.0(60%I _{max}) | 2907.667(10%I _{max}) |

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

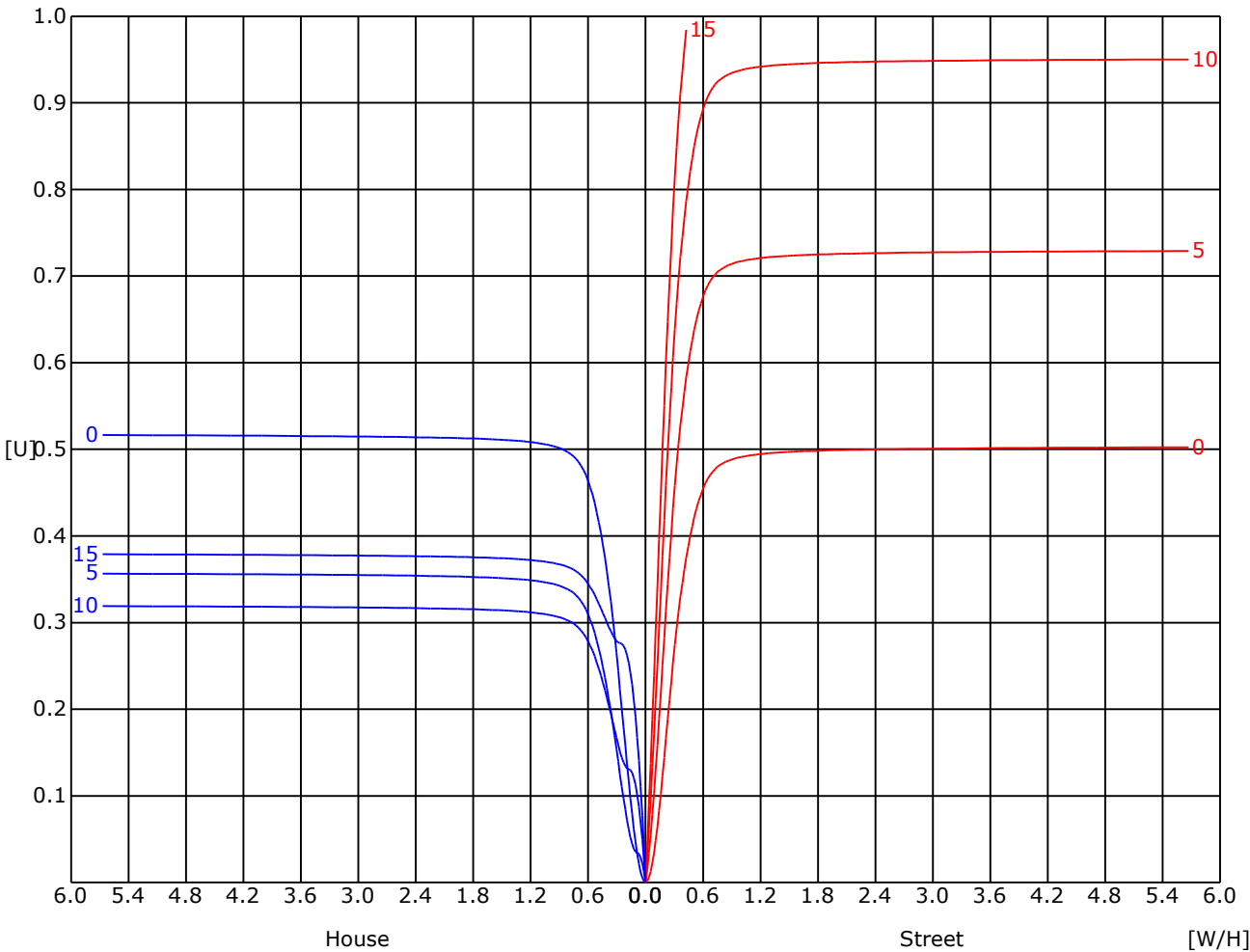
ISOLX DIAGRAM



Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

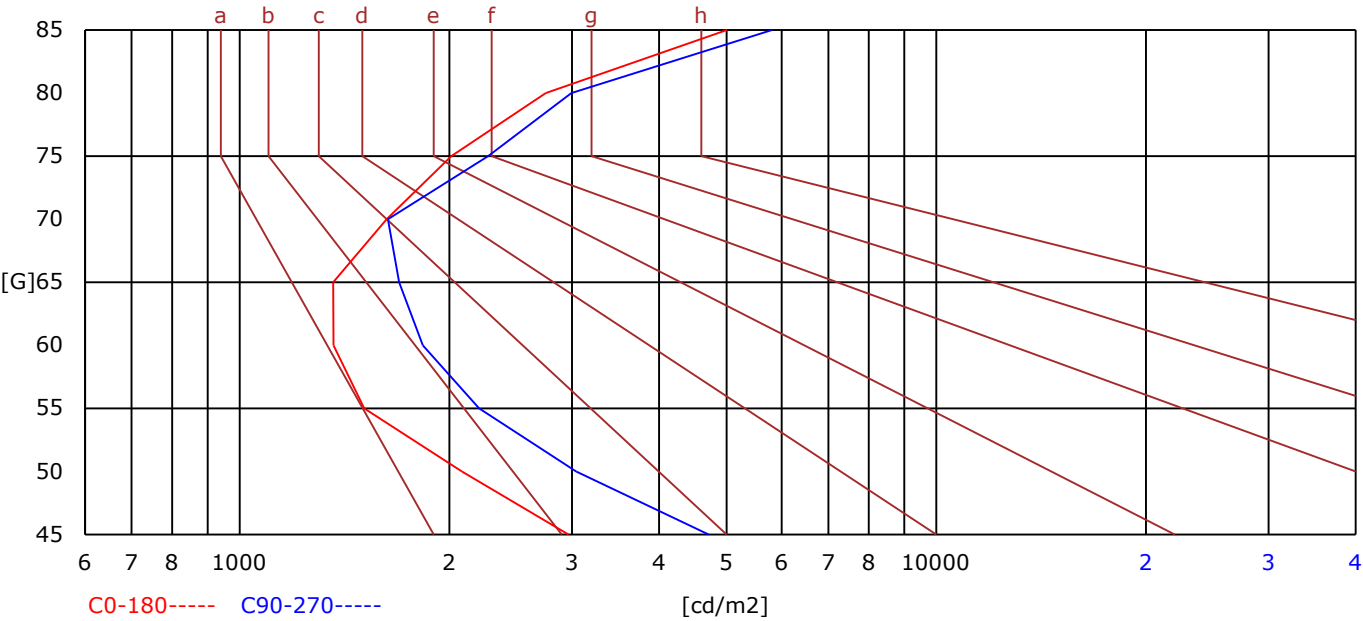
1671.145(92%Emax)	908.231(50%Emax)
1634.816(90%Emax)	726.585(40%Emax)
1453.169(80%Emax)	544.939(30%Emax)
1271.523(70%Emax)	363.292(20%Emax)
1089.877(60%Emax)	181.646(10%Emax)

UTILIZATION FACTOR DIAGRAM (ROAD)



BRIGHT LIMIT DIAGRAM

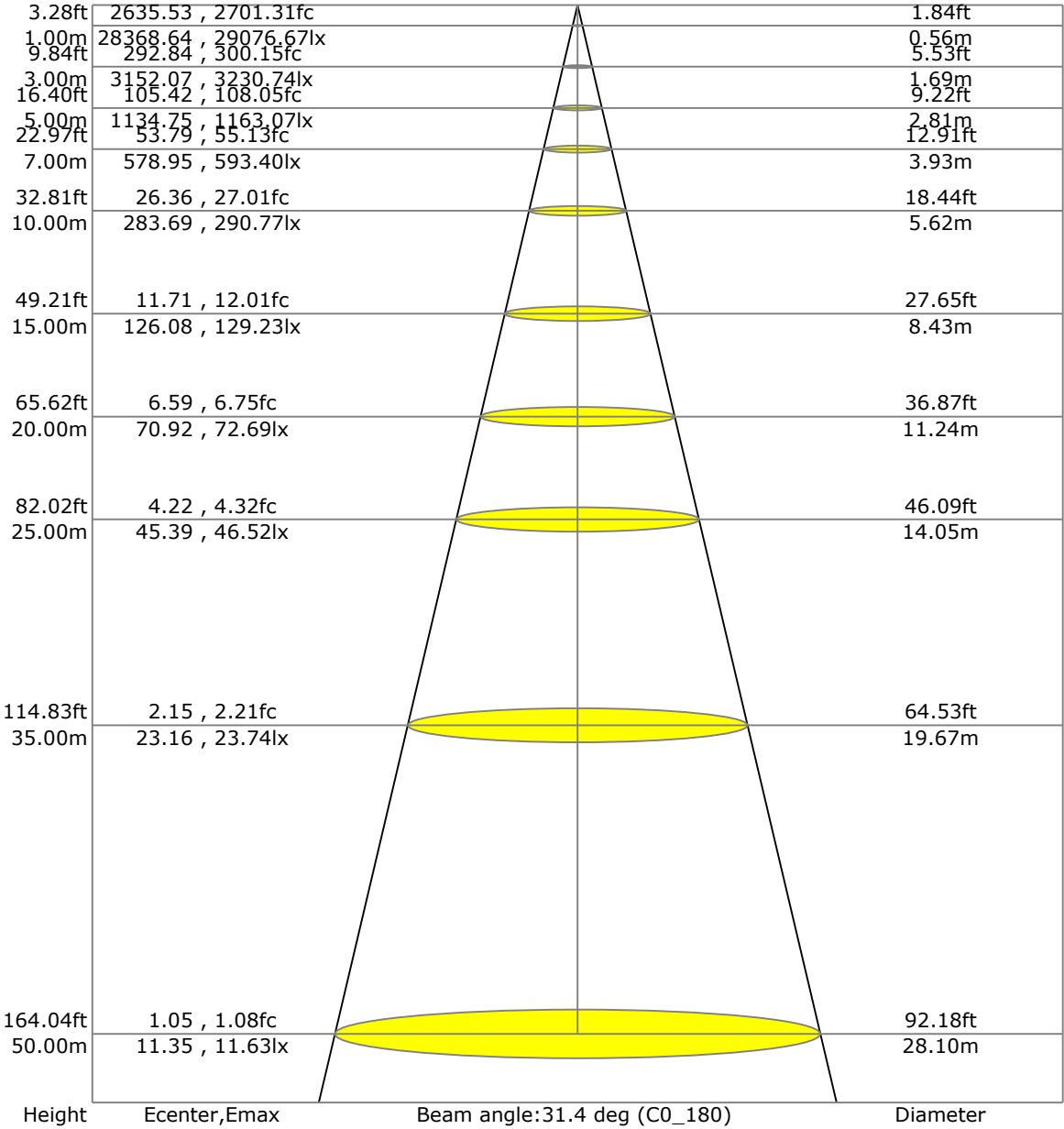
C/G	45	50	55	60	65	70	75	80	85
C0	2966	2084	1510	1364	1363	1626	2013	2752	5007
C90	4713	3041	2207	1833	1695	1633	2275	2995	5812
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



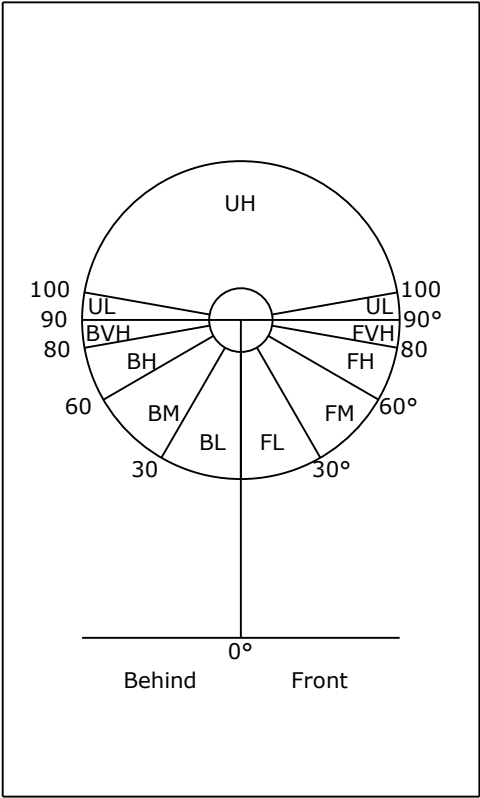
C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

LX-DISTANCE DIAGRAM



BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	4832.4	48.9
FL (0°-30°)	4297.5	43.5
FM (30°-60°)	478.6	4.8
FH (60°-80°)	40.0	0.4
FVH (80°-90°)	16.4	0.2

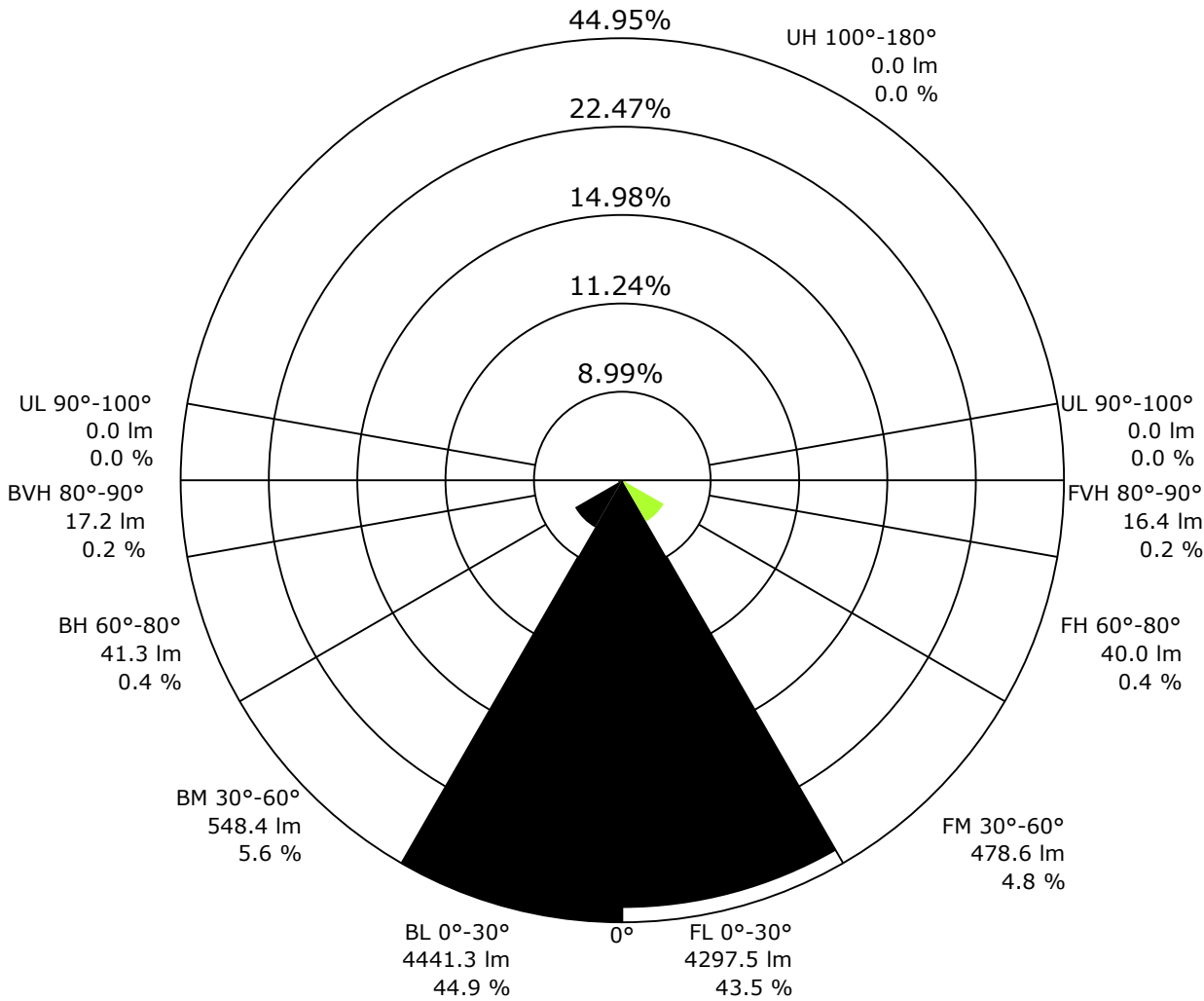
Behind	5048.2	51.1
BL (0°-30°)	4441.3	44.9
BM (30°-60°)	548.4	5.6
BH (60°-80°)	41.3	0.4
BVH (80°-90°)	17.2	0.2

Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0

Limit Light	NA	NA
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BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B4 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B4 U0 G1

LCS 图



Behind
Mark:MAX LCS%
Limit Light:NA,NA

Front

UGR(Unified Glare Rating) TABLE

RHOCC	70	70	50	50	30	70	70	50	50	30
RHOW	50	30	50	30	30	50	30	50	30	30
RHOF	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewed Endwise					Viewed Crosswise				
2H 2H	9.76	9.96	10.07	10.41	10.94	10.83	11.03	11.14	11.48	12.01
3H	9.58	9.78	9.90	10.22	10.77	10.67	10.86	10.99	11.31	11.85
4H	9.49	9.68	9.82	10.13	10.67	10.58	10.77	10.91	11.22	11.77
6H	9.39	9.58	9.73	10.03	10.58	10.49	10.68	10.83	11.13	11.68
8H	9.35	9.53	9.69	9.97	10.53	10.45	10.63	10.79	11.07	11.63
12H	9.30	9.47	9.65	9.92	10.48	10.40	10.57	10.75	11.02	11.58
4H 2H	9.75	9.94	10.07	10.38	10.93	11.07	11.26	11.40	11.71	12.25
3H	9.72	9.90	10.07	10.34	10.91	10.99	11.17	11.34	11.61	12.18
4H	9.70	9.87	10.06	10.31	10.89	10.95	11.11	11.31	11.56	12.13
6H	9.67	9.82	10.04	10.26	10.85	10.89	11.04	11.26	11.49	12.07
8H	9.64	9.79	10.02	10.23	10.82	10.86	11.00	11.23	11.45	12.04
12H	9.60	9.74	9.99	10.18	10.78	10.82	10.95	11.20	11.40	11.99
8H 4H	10.39	10.57	10.73	11.02	11.58	11.55	11.73	11.89	12.18	12.74
6H	10.90	11.03	11.29	11.47	12.08	11.82	11.95	12.21	12.39	12.99
8H	10.97	11.08	11.36	11.53	12.14	11.86	11.97	12.25	12.42	13.03
12H	11.01	11.11	11.41	11.55	12.17	11.88	11.99	12.28	12.43	13.04
12H 4H	11.38	11.52	11.76	11.96	12.56	12.21	12.35	12.59	12.79	13.39
6H	11.67	11.79	12.07	12.23	12.84	12.42	12.54	12.82	12.98	13.59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C5	C10	C15	C20	C25	C30	C35	γ	φ zonal	φ total	%lum	%lamp
10	22052.8	18089.8	20023.3	18521.2	20477.5	18952.9	20955.4	19405.9	10	2317.6	2317.6	23.5	23.5
20	9729.6	6585.6	7761.8	6718.4	7918.7	6857.9	8116.6	7046.0	20	4009.6	6327.3	64.0	64.0
30	2767.7	1471.0	1981.7	1539.9	2067.6	1624.5	2184.1	1722.8	30	2411.6	8738.8	88.4	88.4
40	389.3	240.5	303.3	248.6	314.6	255.1	327.7	270.7	40	774.4	9513.2	96.3	96.3
50	110.2	83.7	97.6	88.4	97.9	85.9	98.8	87.7	50	178.2	9691.4	98.1	98.1
60	50.4	42.6	48.8	42.7	51.2	43.8	46.8	45.8	60	74.5	9765.8	98.8	98.8
70	34.5	34.8	36.0	33.8	38.6	36.4	35.9	30.6	70	44.1	9809.9	99.3	99.3
80	30.5	29.9	31.6	25.6	32.9	29.1	33.2	29.8	80	37.2	9847.1	99.7	99.7
90	32.2	28.6	0.0	32.4	0.0	24.7	0.0	34.4	90	33.5	9880.6	100.0	100.0

Conical surface Flux(90deg) : 9625.9 lm

%lum = 97.4%

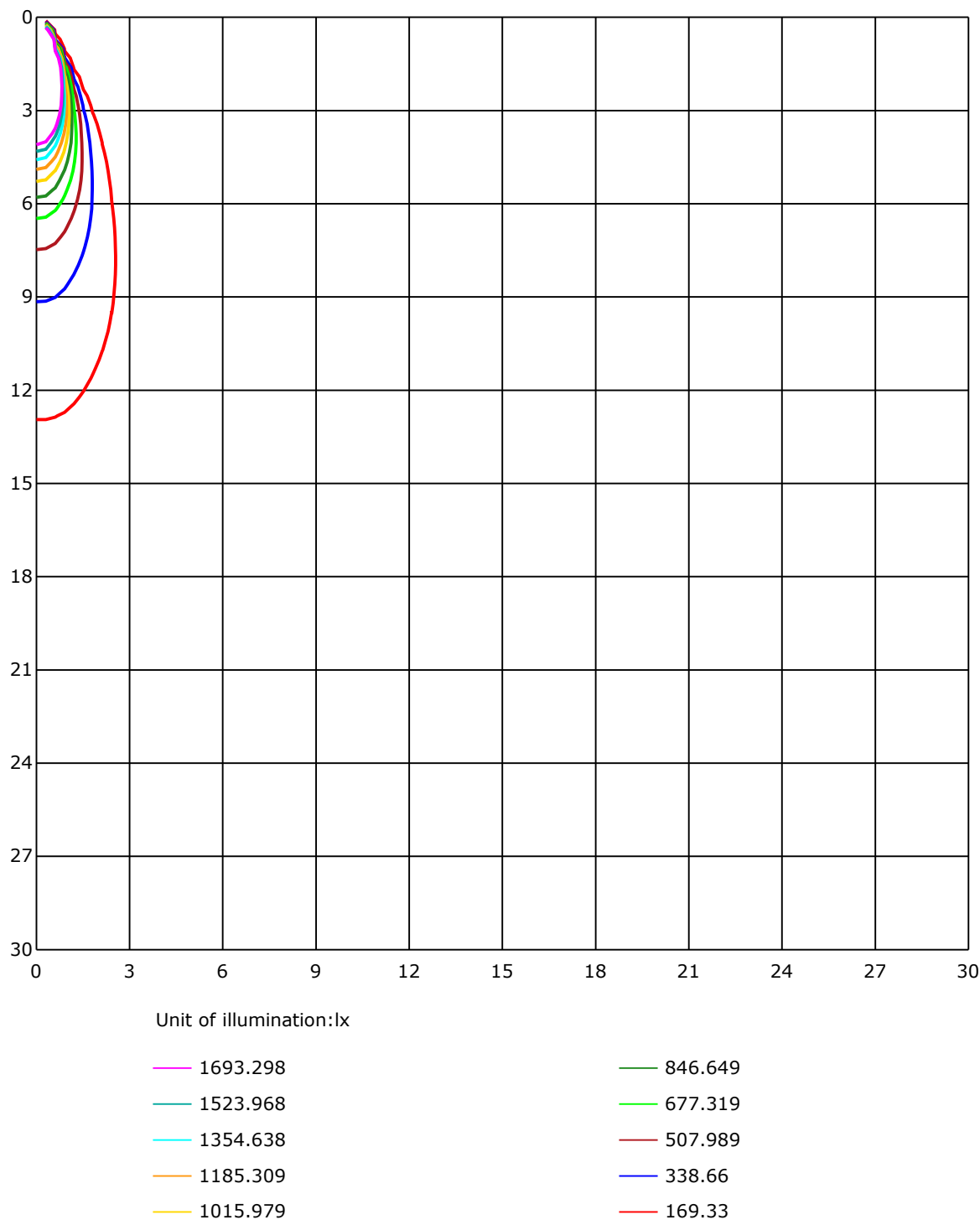
%lamp = 97.4%

Conical surface Flux(120deg) : 9765.8 lm

%lum = 98.8%

%lamp = 98.8%

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	28368.64	28015.55	28271.97	28135.61	28282.24	28250.28	28304.08	28350.25	28256.51	28440.24
G1	28425.58	27587.32	28161.98	27796.38	28253.42	27972.33	28334.19	28143.49	28413.21	28303.18
G2	28302.73	26954.88	27847.53	27207.01	28017.1	27467.67	28182.72	27699.95	28302.33	27914.24
G3	28023.83	26132.03	27272.22	26447.22	27517.02	26757.14	27759.78	27066.81	27966.19	27320.83
G4	27606.27	25182.09	26541.51	25546.5	26858.46	25904.87	27161.69	26246.45	27411.33	26578.0
G5	26985.24	24120.87	25683.56	24537.68	26023.83	24935.39	26381.71	25330.01	26682.8	25686.5
G6	26219.13	22983.91	24684.51	23440.81	25071.75	23884.24	25463.83	24301.15	25822.91	24700.16
G7	25289.88	21824.52	23586.74	22283.71	24023.94	22740.16	24451.72	23194.76	24854.97	23625.68
G8	24266.1	20620.06	22449.59	21079.0	22894.31	21545.02	23357.44	22000.17	23775.75	22449.63
G9	23169.33	19378.6	21247.66	19832.25	21710.89	20276.29	22185.74	20758.26	22625.33	21206.28
G10	22052.82	18089.83	20023.26	18521.24	20477.46	18952.91	20955.4	19405.92	21393.75	19884.51
G11	20893.82	16795.07	18738.97	17172.69	19179.42	17596.48	19644.44	18026.41	20075.81	18483.7
G12	19697.29	15450.81	17429.61	15800.11	17846.32	16178.13	18281.53	16589.66	18703.47	17026.81
G13	18467.05	14126.64	16080.81	14441.59	16455.14	14785.5	16872.2	15173.2	17272.26	15583.98
G14	17198.77	12818.67	14728.92	13097.72	15066.65	13409.04	15452.2	13762.28	15835.41	14143.54
G15	15923.11	11576.21	13391.08	11814.38	13682.4	12099.87	14033.45	12423.95	14389.09	12780.28
G16	14621.22	10404.66	12105.85	10613.11	12376.93	10861.9	12688.59	11156.31	13021.79	11469.77
G17	13314.6	9318.76	10880.4	9506.42	11116.63	9719.96	11400.92	9978.87	11701.11	10278.27
G18	12033.11	8316.97	9752.97	8475.66	9949.11	8666.32	10210.76	8891.83	10478.6	9155.67
G19	10856.22	7414.79	8709.3	7560.42	8882.25	7726.7	9107.11	7932.91	9355.55	8160.21
G20	9729.59	6585.56	7761.85	6718.43	7918.7	6857.93	8116.64	7046.04	8332.17	7248.17
G21	8688.01	5869.75	6913.82	5985.42	7049.88	6112.26	7226.63	6274.74	7415.84	6452.04
G22	7743.15	5203.8	6151.84	5314.83	6277.29	5433.5	6425.51	5576.04	6598.12	5733.64
G23	6909.18	4626.5	5483.1	4727.71	5583.02	4838.04	5725.46	4971.96	5874.09	5114.8
G24	6158.03	4073.48	4872.55	4188.05	4981.14	4292.35	5099.55	4413.71	5238.6	4552.01
G25	5472.08	3575.85	4320.42	3677.11	4418.94	3785.2	4537.85	3906.65	4667.28	4044.16
G26	4853.5	3088.94	3799.41	3184.81	3899.12	3291.96	4019.18	3424.53	4143.92	3558.6
G27	4294.3	2627.65	3302.23	2723.98	3403.89	2834.66	3524.44	2954.97	3651.03	3096.46
G28	3766.1	2201.42	2828.23	2287.47	2926.55	2386.49	3047.15	2515.87	3174.29	2652.93
G29	3254.36	1813.13	2388.24	1896.79	2480.97	1991.92	2601.88	2110.98	2729.41	2234.03
G30	2767.65	1471.0	1981.7	1539.91	2067.6	1624.51	2184.07	1722.78	2304.18	1849.92
G31	2320.23	1186.91	1619.63	1245.45	1699.75	1319.24	1799.47	1413.57	1915.43	1515.87
G32	1905.91	953.23	1311.91	1002.74	1379.56	1058.78	1472.15	1138.25	1572.86	1230.79
G33	1540.7	774.59	1055.64	814.13	1116.61	863.69	1192.05	924.16	1276.16	1000.45
G34	1241.91	633.59	856.21	658.47	900.78	698.01	962.6	750.11	1032.2	811.93
G35	995.01	529.89	701.3	551.18	736.75	579.15	783.76	620.68	841.8	671.18
G36	801.36	445.43	584.63	462.83	607.87	483.17	648.7	515.78	692.17	556.01

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G37	656.53	379.52	487.36	391.68	508.05	409.28	535.97	440.44	576.41	466.07
G38	540.46	324.97	412.67	334.15	429.87	348.26	451.01	369.5	485.07	397.52
G39	451.76	274.32	352.94	285.83	366.75	299.79	383.21	316.45	412.22	340.03
G40	389.34	240.51	303.28	248.59	314.55	255.12	327.66	270.73	346.96	290.27
G41	333.5	209.85	261.85	211.7	270.88	221.97	281.15	233.28	302.09	248.49
G42	282.39	184.42	225.76	185.27	233.08	187.17	242.11	203.07	257.47	214.59
G43	243.16	163.33	199.08	165.88	203.97	167.42	210.4	173.95	223.61	187.91
G44	211.65	145.58	171.81	151.82	179.69	151.47	184.97	158.95	194.94	166.43
G45	186.77	131.08	158.8	132.97	160.04	135.66	160.39	142.39	177.24	148.78
G46	166.57	118.61	143.39	119.31	143.04	122.3	147.83	127.98	154.26	133.87
G47	149.37	107.89	129.68	110.48	129.18	110.09	133.97	115.07	138.8	121.45
G48	134.57	99.07	117.76	102.91	117.17	100.86	121.2	105.0	125.59	108.04
G49	121.85	91.04	107.54	89.2	106.85	92.93	110.29	99.32	114.12	103.01
G50	110.19	83.71	97.57	88.45	97.92	85.86	98.82	87.75	106.0	89.35
G51	100.11	77.58	89.1	81.92	92.39	79.77	91.39	80.97	94.53	88.2
G52	91.24	71.84	81.57	75.63	82.91	74.19	86.95	79.67	88.15	81.77
G53	83.11	67.16	75.24	70.0	75.83	69.25	81.07	69.2	81.17	72.44
G54	76.18	63.12	69.5	64.17	71.65	65.41	70.75	64.72	69.6	69.7
G55	75.43	54.15	64.67	59.28	67.31	61.08	65.36	61.08	70.15	64.37
G56	65.11	49.51	60.53	54.89	62.87	57.09	61.03	57.74	60.13	60.23
G57	59.88	51.75	56.99	51.2	58.63	53.4	56.99	48.76	60.48	55.89
G58	56.39	48.76	54.34	47.76	54.89	48.66	53.75	45.02	56.19	56.94
G59	53.55	45.27	51.2	45.12	51.35	46.27	50.81	48.31	55.19	48.86
G60	50.36	42.63	48.76	42.68	51.15	43.78	46.77	45.82	49.21	46.32
G61	41.48	40.68	46.42	41.58	45.77	45.87	46.52	43.68	46.52	44.32
G62	38.49	39.14	44.27	40.48	43.63	40.58	45.52	41.53	44.52	45.62
G63	42.23	37.94	42.78	39.84	47.81	44.52	37.89	44.07	43.23	42.73
G64	40.48	41.38	41.13	39.14	45.82	38.54	42.88	38.99	41.93	41.18
G65	38.84	36.0	39.59	32.21	40.78	38.34	41.58	37.89	41.08	37.69
G66	39.49	35.3	38.29	37.44	41.03	38.04	39.79	36.99	40.53	39.84
G67	39.79	35.15	37.64	36.5	39.69	37.89	38.69	36.55	39.84	39.14
G68	35.4	34.5	41.73	33.9	34.5	37.49	40.38	36.1	35.85	37.89
G69	34.95	35.05	36.55	34.25	39.04	30.81	36.65	35.95	33.65	36.99
G70	34.45	34.75	36.05	33.75	38.64	36.4	35.9	30.61	31.91	36.2
G71	37.74	34.85	35.65	33.21	32.21	35.25	35.35	29.22	31.91	35.35
G72	33.7	28.42	35.35	32.71	36.89	34.3	34.95	35.0	36.79	35.2
G73	33.85	34.0	35.6	32.26	36.0	33.3	34.55	34.05	35.6	33.75

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

[illegible]

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C50	C55	C60	C65	C70	C75	C80	C85	C90	C95
G0	28260.65	28519.61	28299.64	28623.37	28250.38	28707.33	28346.61	28838.6	28424.04	28948.39
G1	28455.15	28455.64	28522.85	28605.17	28591.61	28762.47	28690.32	28917.33	28814.97	29052.44
G2	28436.15	28123.39	28567.63	28336.14	28701.69	28555.66	28845.23	28772.34	28994.26	28917.73
G3	28165.03	27590.27	28348.6	27848.83	28550.22	28109.48	28741.43	28359.07	28929.94	28549.28
G4	27652.04	26868.92	27902.27	27148.22	28152.61	27450.06	28409.08	27728.32	28623.12	27945.05
G5	26976.71	26032.96	27253.83	26342.28	27539.86	26668.89	27817.72	26974.62	28079.07	27205.06
G6	26171.12	25080.43	26474.5	25434.87	26783.37	25777.59	27086.85	26100.02	27367.1	26366.71
G7	25221.08	24036.71	25573.82	24418.81	25911.11	24814.84	26236.58	25136.87	26532.63	25410.04
G8	24188.62	22885.69	24576.96	23301.4	24957.88	23730.23	25301.5	24110.35	25614.5	24398.32
G9	23063.88	21666.02	23479.99	22121.02	23898.55	22578.67	24273.33	22987.0	24602.54	23292.13
G10	21857.92	20343.39	22300.11	20814.5	22754.56	21288.0	23173.37	21738.31	23534.44	22086.22
G11	20554.39	18959.15	21023.06	19435.83	21494.81	19943.24	21954.7	20408.21	22344.88	20761.45
G12	19179.07	17482.11	19659.85	17976.4	20158.32	18502.7	20643.09	18980.29	21041.2	19339.91
G13	17737.03	16037.28	18207.14	16514.12	18728.75	17020.08	19222.24	17497.17	19659.95	17881.42
G14	16274.51	14568.38	16748.5	15044.32	17260.34	15532.67	17757.28	15996.2	18193.93	16371.48
G15	14806.65	13168.97	15267.63	13602.83	15768.05	14086.75	16258.4	14521.36	16678.8	14887.61
G16	13410.68	11841.26	13833.72	12236.63	14312.8	12678.82	14771.7	13086.46	15197.28	13449.77
G17	12055.2	10609.67	12460.19	10966.85	12892.76	11353.9	13330.71	11747.63	13730.62	12078.68
G18	10803.82	9460.75	11170.07	9770.97	11562.25	10132.29	11957.28	10480.34	12332.36	10788.41
G19	9637.75	8430.84	9963.97	8713.38	10320.05	9019.71	10687.25	9335.26	11030.02	9614.61
G20	8588.29	7482.65	8871.68	7733.83	9196.56	8012.04	9509.36	8284.11	9828.45	8539.13
G21	7645.93	6670.42	7902.4	6898.46	8189.18	7140.72	8466.59	7379.24	8744.05	7603.35
G22	6799.65	5926.19	7033.68	6128.21	7275.84	6346.69	7528.02	6559.38	7774.51	6755.62
G23	6058.41	5289.46	6257.89	5474.53	6483.15	5676.65	6706.06	5855.49	6918.26	6028.35
G24	5400.09	4717.59	5582.17	4892.44	5787.73	5069.63	5986.47	5235.51	6174.98	5380.5
G25	4815.56	4210.29	4990.31	4372.17	5174.38	4542.24	5357.06	4697.0	5512.32	4826.08
G26	4286.57	3718.74	4460.57	3890.25	4634.13	4060.86	4798.71	4208.99	4937.76	4329.25
G27	3795.62	3258.55	3967.98	3428.67	4142.88	3606.51	4302.77	3764.26	4430.91	3885.86
G28	3325.41	2808.34	3495.92	2981.49	3671.37	3164.97	3842.53	3333.94	3973.36	3461.72
G29	2879.48	2388.24	3042.97	2554.31	3227.74	2737.39	3404.14	2912.14	3545.93	3045.71
G30	2443.98	1982.39	2610.3	2149.92	2792.63	2322.27	2967.83	2485.51	3120.05	2629.2
G31	2046.51	1647.1	2200.97	1788.95	2373.13	1948.29	2554.26	2105.99	2706.08	2238.21
G32	1690.48	1341.87	1832.92	1468.41	1991.97	1604.47	2153.16	1742.53	2304.08	1868.47
G33	1382.46	1097.12	1507.4	1201.92	1647.75	1321.88	1797.97	1434.81	1931.69	1538.26
G34	1124.29	889.71	1229.29	970.53	1352.39	1074.88	1473.99	1164.78	1590.86	1251.33
G35	916.53	733.46	1003.74	804.5	1106.14	883.78	1208.4	953.38	1303.88	1020.09
G36	751.7	611.11	821.36	664.85	904.72	726.08	986.04	778.03	1061.77	831.63

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma\C	C100	C105	C110	C115	C120	C125	C130	C135	C140	C145
G0	28515.03	28975.56	28491.69	28963.05	28542.15	28894.2	28544.64	28777.53	28563.39	28639.02
G1	28890.35	29076.67	28881.68	29034.34	28866.62	28917.78	28791.49	28729.51	28715.65	28490.89
G2	29062.91	28943.85	29060.87	28883.22	28990.37	28722.33	28857.55	28462.08	28675.87	28116.31
G3	29008.32	28578.1	29003.88	28508.89	28891.15	28314.6	28678.71	27994.51	28407.53	27553.32
G4	28728.27	28017.84	28702.09	27941.96	28580.59	27739.89	28320.78	27364.01	27971.38	26851.27
G5	28213.49	27286.68	28193.49	27224.96	28071.69	27010.17	27772.29	26610.66	27337.84	26049.61
G6	27531.83	26460.44	27525.65	26399.56	27393.63	26169.27	27085.96	25750.57	26602.19	25162.39
G7	26700.75	25521.97	26725.13	25454.06	26590.32	25242.86	26271.18	24817.63	25761.73	24209.91
G8	25810.34	24510.0	25823.61	24457.65	25684.46	24218.04	25374.84	23782.13	24846.69	23174.42
G9	24816.63	23416.92	24843.6	23363.43	24692.38	23127.35	24366.76	22671.2	23833.63	22075.55
G10	23757.45	22212.26	23789.46	22144.11	23626.03	21897.31	23291.38	21461.71	22758.9	20874.83
G11	22579.81	20919.05	22620.55	20857.23	22452.53	20602.86	22106.71	20187.54	21594.47	19620.61
G12	21308.24	19513.26	21349.53	19480.41	21188.98	19245.23	20851.39	18844.32	20340.55	18314.98
G13	19937.55	18068.59	19988.91	18064.5	19837.14	17860.23	19514.51	17492.68	19035.43	17003.43
G14	18493.67	16580.29	18579.13	16601.67	18438.53	16436.84	18145.96	16112.02	17698.24	15663.4
G15	16978.75	15097.96	17080.06	15155.65	16997.54	15032.0	16743.62	14748.11	16325.86	14343.27
G16	15493.68	13655.38	15613.59	13730.52	15558.2	13647.15	15343.41	13398.86	14985.14	13048.36
G17	14022.53	12293.67	14156.45	12378.03	14139.75	12327.37	13969.14	12119.21	13656.03	11812.19
G18	12622.63	10996.42	12768.91	11088.16	12771.7	11049.67	12637.39	10882.89	12359.03	10606.93
G19	11299.3	9814.89	11442.65	9920.99	11468.47	9891.27	11357.79	9734.82	11120.57	9505.57
G20	10093.15	8727.84	10230.9	8810.96	10263.01	8809.26	10166.89	8676.44	9966.86	8471.77
G21	8982.62	7769.08	9121.52	7870.94	9165.79	7856.03	9082.83	7740.66	8903.64	7564.26
G22	7987.26	6901.7	8111.1	6980.23	8148.9	6980.73	8093.2	6886.15	7939.34	6728.7
G23	7103.48	6152.29	7225.08	6225.73	7260.43	6220.0	7205.79	6136.99	7069.97	6001.02
G24	6328.24	5487.79	6427.01	5548.22	6471.83	5548.96	6425.31	5476.72	6302.71	5354.57
G25	5655.41	4915.82	5739.22	4970.81	5774.82	4964.88	5733.29	4897.67	5626.74	4786.94
G26	5058.66	4415.65	5134.7	4454.89	5162.92	4448.56	5125.57	4388.03	5030.54	4284.82
G27	4538.3	3969.47	4606.4	4003.73	4624.75	3990.81	4588.76	3939.31	4499.41	3847.62
G28	4077.71	3550.97	4145.92	3588.31	4152.1	3583.67	4119.54	3534.96	4034.89	3453.25
G29	3655.82	3141.44	3716.15	3186.31	3730.35	3194.24	3705.92	3152.55	3628.2	3082.2
G30	3239.36	2726.72	3305.12	2787.45	3329.95	2800.56	3311.85	2769.1	3243.49	2709.17
G31	2825.69	2336.23	2899.68	2396.81	2929.99	2422.29	2922.56	2397.56	2869.86	2345.76
G32	2422.74	1951.63	2500.37	2021.83	2540.9	2048.11	2538.01	2026.17	2495.63	1983.29
G33	2043.87	1626.76	2121.85	1684.99	2171.4	1711.02	2169.11	1695.51	2131.67	1653.03
G34	1694.56	1320.73	1767.01	1377.77	1810.33	1399.71	1817.86	1385.6	1782.36	1345.01
G35	1393.32	1083.56	1457.39	1125.64	1496.48	1141.54	1505.8	1120.1	1468.86	1089.19
G36	1134.36	880.84	1188.86	906.56	1218.67	921.42	1222.26	905.07	1192.7	871.96

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 5)

Gamma\C	C150	C155	C160	C165	C170	C175	C180	C185	C190	C195
G0	28518.02	28468.66	28459.18	28275.86	28415.86	28092.53	28368.64	28015.55	28271.97	28135.61
G1	28571.02	28211.59	28442.18	27904.27	28275.46	27600.24	28125.94	28232.88	28195.84	28280.7
G2	28438.59	27734.11	28179.04	27313.11	27903.52	26923.07	27648.1	28225.85	27972.92	28186.31
G3	28080.17	27071.45	27723.38	26561.35	27321.23	26083.71	26959.31	28000.04	27596.9	27879.84
G4	27531.68	26292.02	27080.67	25705.14	26580.05	25137.81	26155.26	27572.32	27076.98	27364.26
G5	26820.21	25418.01	26273.82	24771.61	25697.62	24145.2	25195.55	26934.69	26381.56	26653.59
G6	26035.95	24490.36	25401.66	23807.31	24766.92	23131.94	24206.72	26121.26	25546.7	25773.5
G7	25129.09	23509.61	24458.5	22798.74	23771.11	22102.82	23158.71	25172.56	24608.08	24800.47
G8	24195.65	22488.28	23486.13	21762.0	22769.92	21058.75	22137.53	24170.13	23610.02	23733.72
G9	23170.38	21390.36	22465.69	20682.08	21730.09	19999.83	21077.7	23138.72	22579.21	22656.74
G10	22113.59	20224.83	21400.68	19545.87	20676.79	18875.04	20023.36	22103.52	21539.83	21574.98
G11	20949.66	19009.1	20270.25	18370.53	19573.54	17731.65	18932.97	21073.31	20519.04	20535.3
G12	19730.29	17732.9	19088.08	17136.79	18426.17	16546.48	17808.58	20003.71	19453.48	19470.98
G13	18461.07	16463.57	17856.89	15909.4	17233.97	15363.91	16663.65	18946.63	18384.09	18414.0
G14	17165.96	15167.47	16591.65	14657.87	16029.26	14160.49	15487.25	17831.76	17298.88	17338.32
G15	15835.41	13893.75	15310.56	13439.7	14797.67	12974.03	14302.29	16715.3	16204.21	16259.55
G16	14539.66	12653.24	14066.31	12227.86	13576.96	11825.35	13138.11	15554.51	15082.21	15143.68
G17	13250.44	11448.08	12824.85	11086.71	12392.14	10718.26	11987.19	14414.81	13957.77	14047.91
G18	12014.36	10299.41	11622.43	9974.04	11241.07	9652.31	10870.23	13230.84	12821.86	12910.06
G19	10825.61	9242.08	10486.92	8956.69	10144.9	8670.61	9815.24	12117.17	11715.77	11834.53
G20	9702.36	8242.58	9416.18	7992.89	9115.14	7747.19	8819.03	10999.11	10630.81	10752.86
G21	8676.84	7366.58	8425.36	7148.55	8160.31	6925.34	7900.4	9970.7	9597.71	9746.59
G22	7739.56	6548.16	7519.99	6365.78	7289.85	6166.45	7059.01	8955.69	8633.36	8748.83
G23	6897.27	5843.48	6702.97	5682.04	6504.29	5509.73	6304.06	8040.75	7746.1	7860.42
G24	6153.14	5210.48	5985.17	5069.93	5806.58	4917.12	5626.44	7184.55	6926.19	7025.9
G25	5492.03	4663.54	5342.16	4534.06	5193.83	4401.09	5028.35	6433.94	6176.92	6292.99
G26	4904.3	4176.23	4771.58	4063.35	4638.06	3940.11	4495.97	5728.0	5519.25	5604.51
G27	4389.37	3751.3	4276.25	3648.74	4154.44	3538.05	4024.91	5124.33	4930.23	5007.61
G28	3937.21	3365.99	3837.15	3272.96	3725.47	3165.07	3608.25	4572.25	4403.83	4469.65
G29	3542.24	3000.19	3447.76	2915.13	3349.54	2800.51	3235.47	4101.25	3937.81	4001.03
G30	3166.76	2627.9	3078.32	2550.42	2984.13	2439.99	2866.87	3666.19	3525.99	3580.03
G31	2797.97	2277.45	2720.69	2193.99	2623.16	2086.6	2506.9	3284.08	3144.78	3191.89
G32	2433.11	1922.07	2360.51	1842.09	2262.15	1739.09	2150.46	2918.42	2787.79	2824.14
G33	2076.18	1596.64	2002.34	1523.0	1912.74	1431.22	1807.89	2563.34	2425.88	2474.99
G34	1736.3	1295.8	1668.69	1228.99	1580.44	1144.93	1481.32	2212.74	2085.3	2126.73
G35	1426.03	1050.05	1368.3	990.42	1286.03	916.38	1197.68	1871.31	1744.72	1789.29
G36	1151.91	835.22	1100.06	790.99	1035.25	729.42	955.97	1549.58	1432.51	1474.94

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 6)

Gamma\C	C200	C205	C210	C215	C220	C225	C230	C235	C240	C245
G0	28282.24	28250.28	28304.08	28350.25	28256.51	28440.24	28260.65	28519.61	28299.64	28623.37
G1	28137.95	28311.66	28098.96	28332.45	27895.84	28343.67	27909.2	28356.13	27914.84	28391.08
G2	27838.61	28130.17	27744.32	28071.44	27363.36	28013.91	27404.79	27964.05	27389.19	27949.09
G3	27387.59	27750.56	27248.39	27609.56	26710.23	27491.05	26774.09	27385.5	26721.69	27324.52
G4	26794.88	27165.78	26610.16	26939.17	25934.64	26767.01	26031.56	26611.46	25951.94	26497.63
G5	26043.18	26395.03	25801.27	26124.35	25027.43	25892.71	25137.56	25672.74	25008.73	25529.35
G6	25177.7	25444.74	24865.09	25117.32	24061.48	24828.95	24128.34	24574.72	23956.93	24400.32
G7	24209.51	24425.79	23828.15	24022.0	23008.29	23689.1	23052.06	23415.28	22835.93	23207.17
G8	23167.14	23314.22	22731.33	22866.0	21954.95	22513.15	21938.44	22201.49	21659.14	21981.02
G9	22096.74	22195.11	21631.32	21734.58	20903.9	21334.82	20808.72	21027.09	20531.16	20792.41
G10	21038.81	21083.38	20544.87	20611.38	19885.75	20198.61	19732.14	19881.71	19468.99	19665.73
G11	20003.52	20021.76	19492.82	19534.15	18880.87	19152.35	18723.27	18839.29	18443.37	18636.52
G12	18952.41	18957.25	18449.15	18492.43	17916.67	18110.62	17714.5	17824.43	17440.28	17611.14
G13	17897.18	17923.85	17417.35	17478.27	16946.09	17124.03	16719.29	16840.84	16468.9	16646.3
G14	16844.98	16878.73	16414.11	16466.61	15993.26	16137.75	15730.41	15847.48	15488.9	15644.16
G15	15796.62	15848.57	15401.4	15459.13	15042.67	15139.85	14755.24	14880.29	14509.14	14657.82
G16	14715.41	14779.37	14352.24	14425.58	14042.73	14119.31	13745.92	13870.67	13507.85	13640.82
G17	13606.52	13725.18	13278.16	13404.7	13002.2	13125.09	12747.07	12868.38	12516.23	12654.99
G18	12502.07	12614.05	12203.38	12322.33	11947.7	12069.56	11739.95	11834.78	11514.39	11615.1
G19	11428.34	11560.86	11170.22	11302.55	10933.5	11071.85	10731.82	10857.91	10520.58	10647.67
G20	10404.11	10507.76	10157.41	10269.74	9951.3	10060.84	9737.06	9856.77	9544.16	9660.78
G21	9390.5	9526.91	9169.28	9303.7	8987.6	9121.52	8794.3	8939.89	8621.35	8756.46
G22	8439.67	8554.59	8236.65	8361.34	8072.56	8193.12	7928.57	8032.28	7766.64	7865.5
G23	7569.1	7695.04	7393.95	7520.09	7246.22	7367.72	7110.36	7222.09	6966.67	7065.44
G24	6782.15	6872.04	6624.84	6715.19	6495.96	6579.82	6368.23	6452.29	6228.53	6301.97
G25	6050.48	6158.23	5913.92	6014.44	5792.82	5903.1	5682.09	5785.29	5556.84	5653.52
G26	5401.83	5479.96	5274.0	5356.61	5171.09	5255.8	5071.83	5147.11	4959.7	5024.51
G27	4817.3	4896.03	4708.76	4789.28	4618.82	4697.99	4526.48	4597.13	4418.49	4483.21
G28	4302.52	4363.15	4201.91	4275.5	4124.43	4189.35	4036.68	4093.47	3938.01	3988.52
G29	3833.16	3903.21	3751.2	3820.8	3675.36	3740.28	3593.55	3655.27	3492.08	3538.9
G30	3424.48	3481.42	3343.61	3401.59	3270.52	3322.17	3185.81	3226.54	3074.98	3117.9
G31	3052.04	3101.75	2969.78	3020.38	2885.62	2934.83	2791.04	2828.18	2679.65	2709.97
G32	2691.52	2734.1	2604.72	2647.1	2521.75	2555.46	2410.12	2440.14	2291.91	2316.04
G33	2339.72	2381.06	2243.1	2291.61	2156.8	2193.69	2048.8	2072.64	1925.71	1948.84
G34	1991.67	2028.41	1902.62	1939.76	1806.69	1830.93	1695.31	1723.83	1585.08	1606.47
G35	1665.05	1698.0	1578.05	1610.8	1485.01	1513.93	1386.64	1412.17	1286.03	1309.91
G36	1357.58	1396.17	1283.84	1308.62	1204.11	1228.94	1123.69	1143.94	1041.78	1059.68

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/30 15:17:13

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

